



# SMA Directional Coupler 13 dB 2.2 GHz Rated To 50 Watts

Directional couplers are indispensable components for isolating, separating and combining signals. For example, they provide a simple way of sampling microwave signals. They also can make accurate attenuator measurements since reflections are eliminated. The MC2025A-13 is a 13 dB directional coupler that operates from 0.8 to 2.2 GHz with 18 dB directivity minimum and 1.3:1 VSWR maximum. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The MC2025A-13 is part of Fairview Microwave's family of directional/dual-directional couplers that offer coupling ratios up to 50 dB with excellent performance featuring high directivity, low insertion loss and VSWR. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, VSWR measurements, power combining and distribution.

# **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	0.8		2.2	GHz
Impedance		50		Ohms
Coupling		13 ±1.	75	dB
Main Line Loss		2		dB
Directivity	18			dB
Main Line VSWR			1.3:1	
Input Power (CW)			50	Watts

Electrical Specification Notes: Values at 25°C, sea level.

## **Mechanical Specifications**

Weight 0.2415 lbs [109.54 g]

Housing Material and Plating Aluminum

### Configuration

Package Type Connectorized Input Connector SMA Female Output Connector SMA Female Coupled Connectors SMA Female

# Environmental Specifications Temperature

Operating Range -30 to +85 deg C



### **Features:**

- Directional Coupler
- 0.8 to 2.2 GHz Frequency Range
- Coupling 13±1.75 dB
- Directivity > 18 dB
- VSWR < 1.3:1
- Max Power 50 Watts (CW)

## **Applications:**

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

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**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

SMA Directional Coupler 13 dB 2.2 GHz Rated To 50 Watts from Fairview Microwave is in-stock and available to ship sameday. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

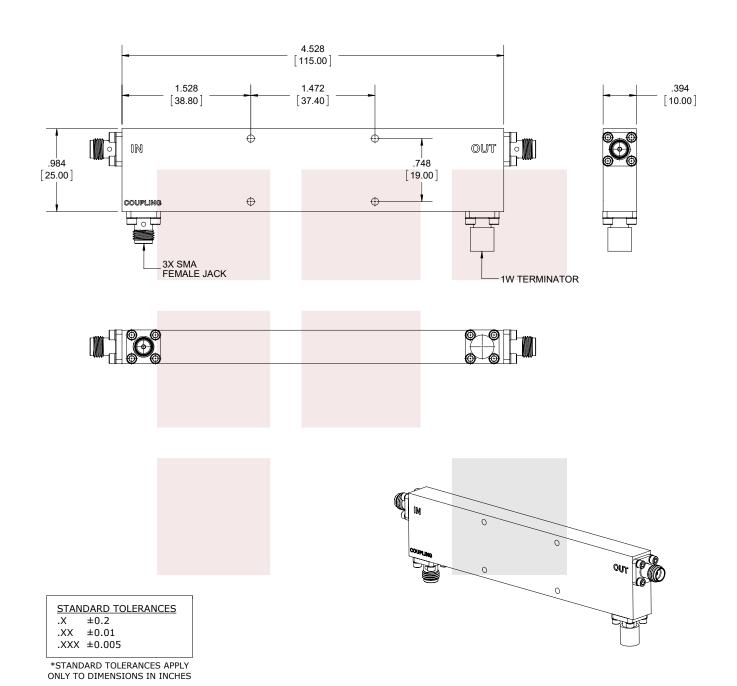
For additional information on this product, please click the following link: SMA Directional Coupler 13 dB 2.2 GHz Rated To 50 Watts MC2025A-13

URL: https://www.fairviewmicrowave.com/sma-directional-standard-13-db-2.2-ghz-mc2025a-13-p.aspx

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SMA Directional Coupler 13 dB 2.2 GHz Rated To 50 Watts	DWG NO MC2025A-13			CAGE CODE 3FKR5			
	CAD FILE 083117	SHEET 1 OF 1	SCAL	E N/A	SIZE A	9999	